

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PHUS 0 2 0 6 3 7 WO	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.					
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)				
PCT/IB 03/06098	18/12/2003	26/12/2002				
Applicant KONINKLIJKE PHILIPS ELECTE	RONICS N.V.					
according to Article 18. A copy is being tra		•				
Basis of the report						
	international search was carried out on the bas less otherwise indicated under this item.	sis of the international application in the				
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of the	ne international application furnished to this				
was carried out on the basis of the	d/or amino acid sequence disclosed in the in e sequence listing: onal application in written form.	ternational application, the international search				
filed together with the inte	rnational application in computer readable form	າ.				
furnished subsequently to	this Authority in written form.					
furnished subsequently to	this Authority in computer readble form.					
	osequently furnished written sequence listing do s filed has been furnished.	pes not go beyond the disclosure in the				
the statement that the info furnished	the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished					
2. Certain claims were fou	nd unsearchable (See Box I).					
3. Unity of invention is lac	king (see Box II).					
4. With regard to the title,						
X the text is approved as su	bmitted by the applicant.					
the text has been establis	hed by this Authority to read as follows:					
5. With regard to the abstract,						
the text is approved as su	bmitted by the applicant.					
the text has been establis	hed, according to Rule 38.2(b), by this Authorited date of mailing of this international search rep					
6. The figure of the drawings to be publ	ished with the abstract is Figure No.	2				
as suggested by the appli	cant.	None of the figures.				
because the applicant faile	ed to suggest a figure.	_				
X because this figure better	characterizes the invention.					

International application No.

PCT/IB 03/06098

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

A LED driver having a sample and hold curcuit with improved stability is provide d. The LED driver comprises a regulation circuit and a sample-and-hold circuit c oupled o an input node (V6) and to an output node (V3) wherein the input and out put nodes are coupled to the regulation circuit. The transfer function of the sa mple-and-hold circuit is pseudo-all-pass if the voltage at the input node is gre ater than the voltage at the output node and is a constant signal if the voltage at the input node is less than the voltage at the output node.

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International Application No PCT/IB 03/06098

A. CLASSIFICATION OF SUB. IPC 7 H05B33/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

ENTS CONSIDERED TO BE RELEVANT	·
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
US 6 472 957 B1 (DOBROVOLNY PIERRE) 29 October 2002 (2002-10-29) column 4, line 35 -column 6, line 60; figures 1,2	1,18
WO 03/017729 A (KONINKL PHILIPS ELECTRONICS NV) 27 February 2003 (2003-02-27) page 4, line 3 -page 5, line 4; figure 3	1-18
WO 03/015476 A (KONINKL PHILIPS ELECTRONICS NV) 20 February 2003 (2003-02-20) page 1, paragraphs 1-9; figure 1 	1-18
	US 6 472 957 B1 (DOBROVOLNY PIERRE) 29 October 2002 (2002-10-29) column 4, line 35 -column 6, line 60; figures 1,2 WO 03/017729 A (KONINKL PHILIPS ELECTRONICS NV) 27 February 2003 (2003-02-27) page 4, line 3 -page 5, line 4; figure 3 WO 03/015476 A (KONINKL PHILIPS ELECTRONICS NV) 20 February 2003 (2003-02-20)

A Tamer assuments are listed in the community of box o.	A atom ranny members are listed in annex.
° Special categories of cited documents :	*T* later document published after the international filing date
A document defining the general state of the art which is not considered to be of particular relevance	or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
E earlier document but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to
"L" document which may throw doubts on priority claim(s) or	involve an inventive step when the document is taken alone
which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the
 O* document referring to an oral disclosure, use, exhibition or other means 	document is combined with one or more other such docu- ments, such combination being obvious to a person skilled
document published prior to the international filing date but	in the art.
later than the priority date claimed	*&* document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report

20 April 2004

Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Y Further documents are listed in the continuation of box C.

Authorized officer

Ferla, M

07/05/2004

Y Patent family members are listed in annex.

International Application No PCT/IB 03/06098

C (Continu	nation) DOCUMENT ASIDERED TO BE RELEVANT	PC1/1B 03/00098	
Category °		Relevant to claim No.	
\	US 6 304 464 B1 (DE CLERCQ JOHN E K G ET AL) 16 October 2001 (2001-10-16) column 2, line 46 -column 3, line 13; figure 3	1-18	

Information on patent family members

International Application No
PCT/IB 03/06098

Patent document cited in search report		Publication date		Patent fan. member(s)	Publication date
US 6472957	B1	29-10-2002	NONE		
WO 03017729	Α	27-02-2003	US WO	2003034742 A1 03017729 A1	20-02-2003 27-02-2003
WO 03015476	Α	20-02-2003	US WO	2003025120 A1 03015476 A1	06-02-2003 20-02-2003
US 6304464	B1	16-10-2001	CA CN DE WO EP JP	2343062 A1 1316174 T 60007610 D1 0105193 A1 1147686 A1 2003504828 T	18-01-2001 03-10-2001 12-02-2004 18-01-2001 24-10-2001 04-02-2003



From the INTERNATIONAL SEARCHING AUTHORITY

KONINKLIJKE PHILIPS ELECTRONICS N.V.

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

P.O. Box 3001 Briarcliff Manor, NY 10510-8001 UNITED STATES OF AMERICA	(PCT Rule 44.1)		
	Date of mailing (day/month/year) 07/05/2004		
Applicant's or agent's file reference			
PHUS020637WO	FOR FURTHER ACTION See paragraphs 1 and 4 below		
International application No.	International filing date		
PCT/IB 03/06098	(day/month/year) 18/12/2003		
Applicant			
KONINKLIJKE PHILIPS ELECTRONICS N.V.	· · · · · · · · · · · · · · · · · · ·		
1. X The applicant is hereby notified that the International	I Search Report has been established and is transmitted herewith.		

	······						
1. X	The applicant is hereby n	The applicant is hereby notified that the International Search Report has been established and is transmitted herewith.					
		Filing of amendments and statement under Article 19:					
	i ne applicant is entitled,	if he so wishes, to amend the claims of the International Application (see Rule 46)): —				
		or filing such amendments is normally 2 months from the date of transmittal of the earch Report; however, for more details, see the notes on the accompanying shee					
	Where? Directly to the	International Bureau of WIPO					
	·	34, chemin des Colombettes	0				
		1211 Geneva 20, Switzerland					
		Fascimile No.: (41-22) 740.14.35					
	For more detailed instru	uctions, see the notes on the accompanying sheet.	AM IO:				
2.		notified that no International Search Report will be established and that the declar fect is transmitted herewith.	ration under				
3. [the protest together	est against payment of (an) additional fee(s) under Rule 40.2, the applicant is not with the decision thereon has been transmitted to the International Bureau togeth to forward the texts of both the protest and the decision thereon to the designated	ner with the				
	no decision has bee	en made yet on the protest; the applicant will be notified as soon as a decision is n	nade.				
4. Fi	rther action(s): The appl	icant is reminded of the following:					
! 	f the applicant wishes to avo priority claim, must reach the	he priority date, the international application will be published by the International old or postpone publication, a notice of withdrawal of the international application, a International Bureau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively, before parations for international publication.	or of the				
		ority date, a demand for international preliminary examination must be filed if the a into the national phase until 30 months from the priority date (in some Offices ever					
1	efore all designated Offices	ority date, the applicant must perform the prescribed acts for entry into the national which have not been elected in the demand or in a later election within 19 monthelected because they are not bound by Chapter II.					

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

_ Fax: (+31-70) 340-3016

Authorized officer

Petros Koutsoftás





These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

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The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added or
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

